

What is claimed is:

1. A display system, comprising:

a signal generation device generating signals to be displayed;

an interface unit, comprising:

5 a control unit receiving the signals to be displayed from said signal generation unit and converting the signals to be displayed into driving signals; and

a transmitting unit converting the driving signals into radio frequency waves;

10 a first antenna for sending the radio frequency waves from said transmitting unit;

a second antenna for receiving the radio frequency waves sent from said first antenna; and

a display device, comprising:

15 a receiving unit receiving the radio frequency waves from said second antenna, converting the radio frequency waves into the driving signals, and separating the driving signals into x-direction image signals and y-direction image signals;

20 a display panel comprising an x-direction drive line arranged for each row of display pixels and a y-direction drive line arranged for each column of display pixels;

an x-direction driver supplying the x-direction drive line with the x-direction image signals; and

a y-direction driver supplying the y-direction drive line with the

y-direction image signals.

2. The display system as recited in claim 1, wherein said signal generation device is any one of a personal computer, a server computer, a personal digital assistant, a television set, a television phone and a television conference system.

5 3. The display system as recited in claim 1, wherein said display panel is a liquid crystal display panel.

4. The display system as recited in claim 1, wherein the radio frequency waves are millimeter waves.

5. A display system, comprising: ~

10 a signal processing unit generating signals to be displayed and receiving input signals;

an interface unit, comprising:

a control unit receiving the signals to be displayed from said signal processing unit and converting the signals to be displayed into driving signals;

15 and

a first transceiver unit converting the driving signals into forward radio frequency waves and providing the input signals for said signal processing unit from backward radio frequency waves;

20 a first antenna sending the forward radio frequency waves from said first transceiver unit and receiving the backward radio frequency waves;

a second antenna receiving the forward radio frequency waves sent from said first antenna and sending the backward radio frequency waves to said first antenna; and

a touch-screen display device, comprising:

a second transceiver unit receiving the forward radio frequency waves from said second antenna, converting the forward radio frequency waves into the driving signals and separating the driving signals into x-direction image signals and y-direction image signals, and converting input signals into backward radio frequency waves;

a touch-screen display panel comprising an x-direction signal line arranged for each row of display pixels and a y-direction signal line arranged for each column of display pixels, wherein each display pixel comprises an input signal detector;

an x-direction driver supplying the x-direction signal line with the x-direction image signals from the second transceiver unit and detecting the x-direction input signals by the input signal detector; and

a y-direction driver supplying the y-direction signal line with the y-direction image signals from the second transceiver unit and detecting the y-direction input signals by the input signal detector.

6. The display system as recited in claim 5, wherein said signal generation device is any one of a personal computer, a server computer, a personal digital assistant, a television set, a television phone and a television conference system.
7. The display system as recited in claim 5, wherein said touch-screen display panel is a liquid crystal display panel.
8. The display system as recited in claim 5, wherein the radio frequency waves are millimeter waves.
9. The display system as recited in claim 5, wherein the input signal detector is of one of a resistive type, a capacitive type, an optical type and an ultrasonic type,

and is activated by pressing of a finger or a stylus pen for generating the input signals.

10.A touch-screen display device, comprising: ↗

5 a transceiver unit receiving a forward radio frequency waves, converting the forward radio frequency waves into a driving signals and separating the driving signals into x-direction image signals and y-direction image signals, and converting input signals into backward radio frequency waves;

10 a touch-screen display panel comprising a plurality of x-direction signal lines and a plurality of y-direction signal lines, the x-direction signal lines and the y-direction lines crossing with each other for defining a plurality of display pixels, wherein each display pixel comprises an input signal detector;

an x-direction driver supplying each of the x-direction signal lines with the x-direction image signals from the transceiver unit and detecting x-direction input signals by the input signal detector; and

15 a y-direction driver supplying each of the y-direction signal lines with the y-direction image signals from the transceiver unit and detecting y-direction input signals by the input signal detector.

11.The touch screen display device as recited in claim 10, wherein said touch-screen display panel is a liquid crystal display panel.

20 12.The touch screen display device as recited in claim 10, wherein the radio frequency waves are millimeter waves.

13.The touch screen display device as recited in claim 10, wherein the input signal detector is of one of a resistive type, a capacitive type, an optical type and an ultrasonic type, and is activated by pressing of a finger or a stylus pen for

generating the input signals.

14. A display device, comprising:

a receiving unit receiving radio frequency waves from an antenna, converting the radio frequency waves into driving signals, and separating the driving signals into x-direction image signals and y-direction image signals;

a display panel comprising an x-direction drive line and a y-direction drive line;

an x-direction driver supplying the x-direction drive line with the x-direction image signals; and

a y-direction driver supplying the y-direction drive line with the y-direction image signals.

15. The display device as recited in claim 14, wherein said display panel is a liquid crystal display panel.

16. The display system as recited in claim 14, wherein the radio frequency waves are millimeter waves.

17. A wirelessly driven system comprising:

an emitting device including a first antenna; and

a receiving device including a second antenna interactively communicating with the first antenna; wherein

said emitting device includes a signal generating unit, a transmitting unit and a control unit under a condition that said transmitting unit communicatively connected to said control unit and said first antenna, respectively, and said signal generating unit communicatively connected to at least said control unit; wherein

said receiving device includes a receiving unit communicatively connected to the second antenna and a display panel communicatively connected to the receiving unit.

18. The system as recited in claim 17, wherein said transmitting unit is essentially a transceiver further performing a receiving function, and said receiving unit is essentially another transceiver further performing a transmitting function so as to have said first antenna and said second antenna communicate with each other in two ways.

19. The system as recited in claim 18, wherein said signal generating unit is further communicatively and directly connected to said transceiver.

20. The system as recited in claim 17, wherein said transmitting unit is essentially directly connected to said first antenna, and said receiving unit is essentially directly connected to said second antenna.